

OCT 31 2005

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Form PTO-19 (Rev. 2-32)				Atty. Docket No. IMMR-IMD0002E	Serial No. 10/657,144
U.S. Patent & TRADEMARK OFFICE Department of Commerce Patent and Trademark Office				Applicant: David Alexander et al.	
Information Disclosure Statement by Applicant (Use several sheets if necessary)				Filed: September 9, 2003	Group: 3714

U.S. Patent Documents

Init.		Document No.	Date	Name	Class	Subclass	Filing Date
04/9	A	2,972,140	9/23/1958	J. Hirsch			
04/9	B	3,157,853	12/6/1957	J. Hirsch			
04/9	C	3,220,121	11/30/1965	A.E. Cutler			
04/9	D	3,226,846	1/4/1966	W.C. Wood			
04/9	E	3,304,434	2/14/1967	R.A. Koster			
04/9	F	3,497,668	2/24/1970	J. Hirsch			
04/9	G	3,517,446	6/30/1970	P.R. Corlyon et al.			
04/9	H	3,541,541	11/17/1970	P.C. Engelbart			
04/9	I	3,623,064	11/23/1971	Kagan			
04/9	J	3,748,366	7/24/1973	Rader et al.			
04/9	K	3,775,865	12/4/1973	Kowan			
04/9	L	3,902,687	9/2/1975	Hightower			
04/9	M	3,903,614	9/9/1975	Diamond et al.			
04/9	N	3,911,416	10/7/1975	Feder			
04/9	O	4,127,752	11/28/1978	Lowthorp			
04/9	P	4,160,508	7/10/1979	Salisbury, Jr.			
04/9	Q	4,236,325	12/2/1980	Hall et al.			
04/9	R	4,262,549	4/21/1981	Schwellenbach			
04/9	S	4,321,047	3/23/1982	Landis			
04/9	T	4,333,070	6/1/1982	Barnes			

Foreign Documents**Translation**

Init.		Document No.	Date	Country	Class	Subclass	Yes	No
04/9	U	H2-185278	1/12/1989	JP			X	
04/9	V	H4-8381	4/25/1990	JP			X	
04/9	W	H5-192449	1/20/1992	JP			X	

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

04/9	X	Adelstein, "A Virtual Environment System for the Study of Human Arm Tremor", Ph.D. Dissertation, Dept. of Mechanical Engineering, MIT, June 1989, 33 pages.
04/9	Y	Adelstein et al., "Design and Implementation of a Force Reflecting Manipulandum for Manual Control Research", DSC-Vol. 42, Advances in Robotics ASME, 1992, pp. 1-12.
04/9	Z	Aukstakalnis, et al., "Silicon Mirage: The Art and Science of Virtual Reality", 1992, pp. 129-180.
04/9	AA	Baigrie, Stephan A., "Electric Control Loading - A Low Cost, High Performance Alternative", Proceedings of Interservice/Industry Training Systems Conference, November 6-8, 1990, pp. 247-254.

Examiner <i>afaria foica</i>	Date Considered <i>1/5/05</i>
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Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office				Atty. Docket No. IMMR-IMD0002E	Serial No. 10/657,144
Information Disclosure Statement by Applicant (Use several sheets if necessary)				Applicant: David Alexander et al.	
				Filed: September 9, 2003	Group: 3714

U.S. Patent Documents							
Init.		Document No.	Date	Name	Class	Subclass	Filing Date
04/9	AB	4,360,345	11/23/1982	Hon			
04/9	AC	4,409,479	10/11/1983	Sprague et al.			
04/9	AD	4,423,428	12/27/1983	Kuwabara et al.			
04/9	AE	4,459,113	7/10/1984	Boscaro Gatti et al.			
04/9	AF	4,464,117	8/7/1984	Foerst			
04/9	AG	4,484,191	11/20/1984	Vavra			
04/9	AH	4,490,810	12/25/1984	Hon			
04/9	AI	4,513,235	4/23/1985	Acklam et al.			
04/9	AJ	4,581,491	4/8/1996	Boothroyd			
04/9	AK	4,599,070	7/8/1986	Hladky et al.			
04/9	AL	4,642,055	2/10/1987	Saliterman			
04/9	AM	4,708,656	11/24/1987	de Vries et al.			
04/9	AN	4,712,101	12/8/1987	Culver			
04/9	AO	4,713,007	12/15/1987	Alban			
04/9	AP	4,726,772	2/23/1988	Amplatz			
04/9	AQ	4,767,333	8/30/1988	Born			
04/9	AR	4,773,865	9/27/1988	Baldwin			
04/9	AS	4,789,340	12/6/1988	Zikria			
04/9	AT	4,794,392	12/27/1988	Selinko			
04/9	AU	4,804,328	2/14/1989	Barrabee			

Foreign Documents

Translation

Init.		Document No.	Date	Country	Class	Subclass	Yes	No
04/9	AV	H7-24147	7/12/1993	JP			X	
04/9	AW	0 349 086	6/29/1988	EP			X	
04/9	AX	0 970 714	1/12/2000	EP			X	

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

04/9	AY	Bejczy, et al., "A Laboratory Breadboard System for Dual-Arm Teleoperation", SOAR '89 Workshop, July 25-27, 1989, pp. 1-12.
04/9	AZ	Bejczy et al., "Generalization of Bilateral Force-Reflecting Control of Manipulators", Proceedings of Fourth CISM-IFTOMM, September 8-12, 1981.
04/9	BA	Bejczy et al., "Kinesthetic Coupling Between Operator and Remote Manipulator", International Computer Technology Conference, The American Society of Mechanical Engineers, August 12-15, 1980.
04/9	BB	Bejczy, "Sensors, Controls, and Man-Machine Interface for Advanced Teleoperation", Science, vol. 208, no. 4450, 1980, pp. 1327-1335.

Examiner <i>Afaria Stoica</i>	Date Considered <i>1/6/06</i>
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U.S. Patent Documents							
Init.		Document No.	Date	Name	Class	Subclass	Filing Date
04/9	BC	4,807,158	2/21/1989	Blanton et al.			
04/9	BD	4,867,168	9/19/1989	Stoor et al.			
04/9	BE	4,867,685	9/19/1989	Brush et al.			
04/9	BF	4,879,668	11/7/1989	Cline et al.			
04/9	BG	4,885,565	12/5/1989	Embach			
04/9	BH	4,891,764	1/2/1990	McIntosh			
04/9	BI	4,907,973	3/13/1990	Hon			
04/9	BJ	4,930,770	6/5/1990	Baker			
04/9	BK	4,934,694	6/19/1990	McIntosh			
04/9	BL	4,936,862	6/26/1990	Walker et al.			
04/9	BM	4,936,892	6/26/1990	Gehring et al.			
04/9	BN	4,955,654	9/11/1990	Tsuchihashi et al.			
04/9	BO	5,019,761	5/28/1991	Kraft			
04/9	BP	5,022,384	6/11/1991	Freels et al.			
04/9	BQ	5,022,407	6/11/1991	Horch et al.			
04/9	BR	5,035,242	7/30/1991	Franklin et al.			
04/9	BS	5,038,089	8/6/1991	Szakaly			
04/9	BT	5,044,956	9/3/1991	Behensky et al.			
04/9	BU	5,077,608	12/31/1991	Dubner			
04/9	BV	5,078,152	1/7/1992	Bond et al.			

Foreign Documents

Translation

Init.		Document No.	Date	Country	Class	Subclass	Yes	No
04/9	BW	2 252 656	8/12/1992	GB			X	
04/9	BX	2 288 686	10/25/1995	GB			X	

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

04/9	BY	Bejczy et al., "Universal Computer Control System (UCCS) for Space Telerobots", IEEE, March 31-April 3, 1987, pp. 318-324.
04/9	BZ	Bliss et al., "Optical-to-Tactile Image Conversion for the Blind", IEEE Transaction of Man-Machine Systems, Vol. MMS-11, No. 1, March 1970, pp. 58-65.
04/9	CA	Brooks et al., "Hand Controllers for Teleoperation", A State-of-the-Art Technology Survey and Evaluation, JPL Publication 85-11, March 1, 1985, pp. 1-84.
04/9	CB	Burdea et al., "Distributed Virtual Force Feedback", IEEE International Conference on Robotics and Automation, May 2, 1993, pp. 25-44.

Examiner <i>Ariana Stoica</i>	Date Considered <i>1/5/06</i>
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U.S. Patent Documents							
Init.		Document No.	Date	Name	Class	Subclass	Filing Date
04/	CC	5,086,401	2/4/1992	Glassman et al.			
04/	CD	5,099,846	3/31/1992	Hardy			
04/	CE	5,112,228	5/12/1992	Zouras			
04/	CF	5,130,794	7/14/1992	Ritchey			
04/	CG	5,137,458	8/11/1992	Unas et al.			
04/	CH	5,149,270	9/22/1992	McKeown			
04/	CI	5,165,897	11/24/1992	Johnson			
04/	CJ	5,175,459	12/29/1992	Danial et al.			
04/	CK	5,185,561	2/9/1993	Good et al.			
04/	CL	5,186,695	2/16/1993	Mangseth et al.			
04/	CM	5,205,289	4/27/1993	Hardy et al.			
04/	CN	5,212,473	5/18/1993	Louis			
04/	CO	5,220,260	6/15/1993	Schuler			
04/	CP	5,222,499	6/29/1993	Allen et al.			
04/	CQ	5,240,417	8/31/1993	Smithson et al.			
04/	CR	5,261,404	11/16/1993	Mick et al.			
04/	CS	5,271,290	12/21/1993	Fischer			
04/	CT	5,273,038	12/28/1993	Beavin			
04/	CU	5,275,174	1/4/1994	Cook			
04/	CV	5,283,970	2/8/1994	Aigher			

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Init.		Document No.	Date	Country	Class	Subclass	Yes	No

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

04/	CW	Caldwell et al., "Enhanced Tactile Feedback (Tele-Taction) Using a Multi-Functional Sensory System", IEEE, 1993, pp. 955-960.
04/	CX	Cyberman Technology Specification, Logic Cyberman SWIFT Supplement to Logitech Mouse Reference and Programming Guide, April 5, 1994, pp. 1-29.
04/	CY	Calder, "Design of a Force-Feedback Touch-Inducing Actuator for Teleoperator Robot Control", Bachelor of Science Thesis, MIT, May 1993, pp. 1-37.
04/	CZ	Eberhardt et al., "Inducing Dynamic Haptic Perception by the Hand: System Description and Some Results", DSC-Vol. 56-1, Dynamic Systems and Control, Vol. 1, ASME, 1984, pp. 345-351.

Examiner *Maria Stoica*Date Considered *1/15/06*

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U.S. Patent Documents							
Init.		Document No.	Date	Name	Class	Subclass	Filing Date
04/	DA	5,295,694	3/22/1994	Levin			
04/	DB	5,299,810	4/5/1994	Pierce et al.			
04/	DC	5,309,140	5/3/1994	Everett, Jr. et al.			
04/	DD	5,311,422	5/10/1994	Loftin et al.			
04/	DE	5,320,326	6/14/1994	Ju et al.			
04/	DF	5,320,537	6/14/1994	Watson			
04/	DG	5,320,538	6/14/1994	Baum			
04/	DH	5,322,441	6/21/1994	Lewis et al.			
04/	DI	5,333,106	7/26/1994	Lanpher et al.			
04/	DJ	5,334,027	8/2/1994	Wherlock			
04/	DK	5,338,198	8/16/1994	Wu et al.			
04/	DL	5,343,871	9/6/1994	Bittman et al.			
04/	DM	5,354,202	10/11/1994	Moncrief et al.			
04/	DN	5,376,007	12/27/1994	Zirm			
04/	DO	5,377,116	12/27/1994	Wayne et al.			
04/	DP	5,385,474	1/31/1995	Brindle			
04/	DQ	5,389,865	2/14/1995	Jacobus et al.			
04/	DR	5,391,081	2/21/1995	Lampotang et al.			
04/	DS	5,403,191	4/4/1995	Tuason			
04/	DT	5,414,337	5/9/1995	Schuler			

Foreign Documents							
Translation							
Init.		Document No.	Date	Country	Class	Subclass	Yes No

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Examiner		Date Considered					
04/	DU	Eberhardt et al., "OMAR-A Haptic Display for Speech Perception by Deaf and Deaf-Blind Individuals", IEEE, 1993, pp. 195-201.					
04/	DV	Gobel et al., "Tactile Feedback Applied to Computer Mice", International Journal of Human-Computer Interaction, vol. 7, no. 1, 1995, pp. 1-5.					
04/	DW	Gotow et al., "Controlled Impedance Test Apparatus for Studying Human Interpretation of Kinesthetic Feedback", Proceedings of the 1989 American Control Conference, June 21-23, 1989, pp. 332-337.					
04/	DX	Howe, "A Force-Reflecting Teleoperated Hand System for the Study of Tactile Sensing in Precision Manipulation", IEEE, 1992, pp. 1321-1326.					
Examiner <i>Ariana Stoic</i>		Date Considered <i>1/5/06</i>					

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U.S. Patent Documents

Init.		Document No.	Date	Name	Class	Subclass	Filing Date
cyp	DY	5,436,622	7/25/1995	Gutman et al.			
cyp	DZ	5,437,607	8/1/1995	Taylor			
cyp	EA	5,438,529	8/1/1995	Rosenbert et al.			
cyp	EB	5,451,924	9/19/1995	Massimino et al.			
cyp	EC	5,454,722	10/3/1995	Holland et al.			
cyp	ED	5,459,382	10/17/1995	Jacobus et al.			
cyp	EE	5,466,213	10/14/1995	Hogan et al.			
cyp	EF	5,482,472	1/9/1996	Garoni et al.			
cyp	EG	5,483,254	1/9/1996	Powell			
cyp	EH	5,483,961	1/16/1996	Kelly et al.			
cyp	EI	5,509,810	4/23/1996	Schertz et al.			
cyp	EJ	5,510,832	4/23/1996	Garcia			
cyp	EK	5,513,992	5/7/1996	Refait			
cyp	EL	5,518,406	5/21/1996	Waters			
cyp	EM	5,531,227	7/2/1996	Schneider			
cyp	EN	5,546,943	8/20/1996	Gould			
cyp	EO	5,547,382	8/20/1996	Yamasaki et al.			
cyp	EP	5,552,995	9/3/1996	Sebastian			
cyp	EQ	5,559,412	9/24/1996	Schuler			
cyp	ER	5,575,761	11/19/1996	Hajianpour			

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Init.		Document No.	Date	Country	Class	Subclass	Yes	No

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

cyp	ES	IBM Technical Disclosure Bulletin, "Mouse Ball-Actuating Device with Force and Tactile Feedback", vol. 32, no. 9B, February 1990.
cyp	ET	Iwata, "Pen-Based Haptic Virtual Environment", IEEE, 1993, pp. 287-292.
cyp	EU	Jacobsen et al., "High Performance, Dextrous Telerobotic Manipulator with Force Reflection", Intervention/ROV '91, Conference & Exposition, May 21-23, 1991, pp. 213-218.
	EV	Johnson, "Shape-Memory Alloy Tactical Feedback Actuator", Armstrong Aerospace Medical Research Laboratory, August 1990, pp. 1-33.

Examiner	<i>Maria Stica</i>	Date Considered	<i>1/5/06</i>
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Init.		Document No.	Date	Name	Class	Subclass	Filing Date
04/	EW	5,576,727	11/19/1996	Rosenberg et al.			
04/	EX	5,589,854	12/31/1996	Tsai			
04/	EY	5,593,306	1/14/1997	Kohnke			
04/	EZ	5,609,485	3/11/1997	Bergman et al.			
04/	FA	5,623,582	4/22/1997	Rosenberg			
04/	FB	5,629,594	5/13/1997	Jacobus et al.			
04/	FC	5,666,138	9/9/1997	Culver			
04/	FD	5,682,886	1/4/1997	Delp et al.			
04/	FE	5,687,259	11/11/1997	Linford			
04/	FF	5,690,582	11/25/1997	Ulrich et al.			
04/	FG	5,691,898	11/25/1997	Rosenberg et al.			
04/	FH	5,701,140	12/23/1997	Rosenberg et al.			
04/	FI	5,704,791	1/6/1998	Gillio			
04/	FJ	5,721,566	2/24/1998	Rosenberg et al.			
04/	FK	5,722,836	3/3/1998	Younker			
04/	FL	5,724,264	3/3/1998	Rosenberg et al.			
04/	FM	5,731,804	3/24/1998	Rosenberg			
04/	FN	5,734,373	3/31/1998	Rosenberg et al.			
04/	FO	5,739,811	4/14/1998	Rosenberg et al.			
04/	FP	5,740,802	4/21/1998	Nafis et al.			

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04/	FQ	Jones et al., "A Perceptual Analysis of Stiffness", Experimental Brain Research, vol. 79, no. 1, 1990, pp. 150-156.
04/	FR	Kacmarek et al., "Tactile Displays", Virtual Environment Technologies, Chapter 9, 1995, pp. 349-414.
04/	FS	Kontarinis et al., "Display of High-Frequency Tactile Information to Teleoperators", SPIE vol. 2057, 1993, pp. 40-50.
04/	FT	Kontarinis et al., "Tactile Display of Vibratory Information in Teleoperation and Virtual Environments", Presence, 1995, pp. 1-24.

Examiner	<i>Maria Stoica</i>	Date Considered	<i>1/5/03</i>
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04/	FU	5,742,278	4/21/1998	Chen et al.			
04/	FV	5,746,753	5/5/1998	Sullivan et al.			
04/	FW	5,755,577	5/26/1998	Gillio			
04/	FX	5,766,016	6/16/1998	Sinclair et al.			
04/	FY	5,767,839	6/16/1998	Rosenberg			
04/	FZ	5,768,134	6/16/1998	Swaelens et al.			
04/	GA	5,769,640	6/23/1998	Jacobus et al.			
04/	GB	5,769,650	6/23/1998	Aoyama et al.			
04/	GC	5,772,836	6/30/1998	Ogawa			
04/	GD	5,785,630	7/28/1998	Bobick et al.			
04/	GE	5,791,908	8/11/1998	Gillio			
04/	GF	5,800,177	9/1/1998	Gillio			
04/	GG	5,800,178	9/1/1998	Gillio			
04/	GH	5,805,140	9/8/1998	Rosenberg et al.			
04/	GI	5,807,115	9/15/1998	Hu			
04/	GJ	5,817,107	10/6/1998	Schaller			
04/	GK	5,821,920	10/13/1998	Rosenberg et al.			
04/	GL	5,825,308	10/20/1998	Rosenberg			
04/	GM	5,825,941	10/20/1998	Linford et al.			
04/	GN	5,828,197	10/27/1998	Martin et al.			
04/	GO	5,853,292	12/29/1998	Eggert et al.			

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Init.		Document No.	Date	Country	Class	Subclass	Yes	No

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)						
04/	GP	Lake, "CYBERMAN from Logitech, 1994.				
04/	GQ	Marcus, "Touch Feedback in Surgery", Proceeding Cutting Edge", September 8-11, 1994, pp. 96-97.				
04/	GR	McAffee et al., "Teleoperator Subsystem/Telerobot Demonstrator: Force Reflecting Hand Controller Equipment Manual", January 1988.				
04/	GS	Minsky, "Computational Haptics: The Sandpaper System for Synthesizing Texture for a Force-Feedback Display", Ph.D. Dissertation, MIT, June 1995.				

Examiner <i>cynthia storci</i>	Date Considered <i>1/8/06</i>
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04/	GT	5,855,583	1/5/1999	Wang et al.			
04/	GU	5,873,731	2/23/1999	Prendergast			
04/	GV	5,873,732	2/23/1999	Hasson			
04/	GW	5,880,976	3/9/1999	DiGioia III et al.			
04/	GX	5,882,206	3/16/1999	Gillio			
04/	GY	5,882,207	3/16/1999	Lampotang et al.			
04/	GZ	5,889,670	3/30/1999	Schuler et al.			
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		Applicant:

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Examiner

Maria Stoica

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